



Image may be representation.
See specifications for product details.



STGB20N45LZAG

Manufacturer Part Number	STGB20N45LZAG
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STGB20N45LZAG
ECAD Model	PCB Footprint and Symbol
Parts Description	POWER TRANSISTORS
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	STGx20N45LZAG.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STGB20N45LZAG - STMicroelectronics.New Original in Stock. Download Linear Technology STGB20N45LZAG datasheet/specifications on AllelcoElec.com.
Request a quote for STGB20N45LZAG, please send us email: info@allelco.com

Specifications

STGB20N45LZAG Tech Specifications
STGB20N45LZAG - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tape & Reel (TR)
Voltage - Collector Emitter Breakdown (Max)	450 V	Operating Temperature	-55°C ~ 175°C (TJ)
Vce(on) (Max) @ Vge, Ic	1.25V @ 4V, 6A	Mounting Type	Surface Mount
Test Condition	300V, 10A, 1kOhm, 5V	Input Type	Logic
Td (on/off) @ 25°C	1.1µs/4.6µs	IGBT Type	-
Switching Energy	-	Gate Charge	26 nC
Supplier Device Package	D ² PAK (TO-263)	Current - Collector Pulsed (Icm)	50 A
Series	Automotive, AEC-Q101	Current - Collector (Ic) (Max)	25 A
Power - Max	150 W	Base Product Number	STGB20
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB		

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STGB20N45LZAG

Product Attribute				
Part Number	STGB20N45LZAG	STGB20NB41LZT4	STGB20NB37LZ	STGB20H60DF
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Voltage - Collector Emitter Breakdown (Max)	450 V	442 V	425 V	600 V
Switching Energy	-	5mJ (on), 12.9mJ (off)	11.8mJ (off)	209µJ (on), 261µJ (off)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tube	Tape & Reel (TR)
Supplier Device Package	D ² PAK (TO-263)	D2PAK	D2PAK	D2PAK
Input Type	Logic	Standard	Standard	Standard
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Current - Collector Pulsed (Icm)	50 A	80 A	80 A	80 A
Vce(on) (Max) @ Vge, Ic	1.25V @ 4V, 6A	2V @ 4.5V, 20A	2V @ 4.5V, 20A	2V @ 15V, 20A
Series	Automotive, AEC-Q101	PowerMESH™	PowerMESH™	-
Test Condition	300V, 10A, 1kOhm, 5V	320V, 20A, 1kOhm, 5V	250V, 20A, 1kOhm, 4.5V	400V, 20A, 100hm, 15V
Td (on/off) @ 25°C	1.1µs/4.6µs	1µs/12.1µs	2.3µs/2µs	42.5ns/177ns
Gate Charge	26 nC	46 nC	51 nC	115 nC
IGBT Type	-	-	-	Trench Field Stop
Current - Collector (Ic) (Max)	25 A	40 A	40 A	40 A
Base Product Number	STGB20	STGB20	STGB20	STGB20
Power - Max	150 W	200 W	200 W	167 W
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB

STGB20N45LZAG Datasheet PDF

Download STGB20N45LZAG pdf datasheets and STMicroelectronics documentation for STGB20N45LZAG - STMicroelectronics.

Datasheets

[STGx20N45LZAG.pdf](#)

PCN Packaging



















[Mult Dev Inner Box Chg 9/Dec/2021.pdf](#)

PCN Assembly/Origin

[Mult Devices Testing 10/May/2018.pdf](#)

Customers Also Interested in

Recommended Products

					
STGB20NB41LZT4 STMicroelectronics IGBT 442V 40A 200W D2PAK	STGB20NB37LZ STMicroelectronics IGBT 425V 40A 200W D2PAK	STGB20H60DF STMicroelectronics IGBT 600V 40A 167W D2PAK	STGB30H60DF STMicroelectronics IGBT 600V 60A 260W D2PAK	STGB18N40LZT4 STMicroelectronics IGBT 420V 30A 150W D2PAK	STGB20NC60VT4 STMicroelectronics IGBT 600V 60A 200W D2PAK
					
STGB19NC60KD STMicroelectronics	STGB19NC60HDT4 STMicroelectronics IGBT 600V 40A 130W D2PAK	STGB19NC60KDT4 STMicroelectronics IGBT 600V 35A 125W D2PAK	STGB20NB41LZT4 MOS STMicroelectronics	STGB19NC60HD STMicroelectronics	STGB35N35LZ-1 STMicroelectronics IGBT 345V 40A 176W I2PAK
					
STGB30V60DF STMicroelectronics IGBT 600V 60A 258W D2PAK	STGB30M65DF2 STMicroelectronics IGBT 650V 30A D2PAK	STGB18N40LZ STMicroelectronics	STGB25N40LZAG STMicroelectronics POWER TRANSISTORS	STGB20M65DF2 STMicroelectronics IGBT TRENCH 650V 40A D2PAK	STGB20NB37LZT4 STMicroelectronics IGBT 425V 40A 200W D2PAK

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

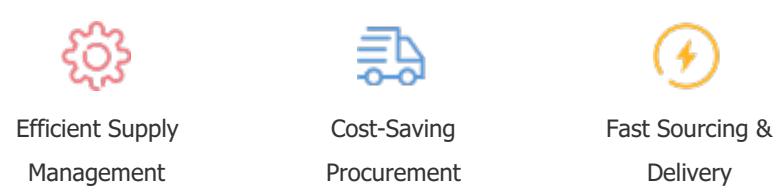
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

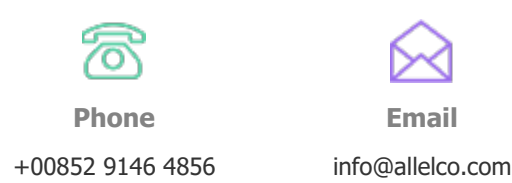
The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -



Contact us if you have any questions.



Certifications & Memberships



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